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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

# QC ABSTRACT

**NAME OF WORK:** Construction of Drains and Culverts in ward No.13 (Doddabommasandra)

| SL NO | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | **Materials** | | | | |
| 1 | Cement | Fineness by dry sieving | One Test | | 1 | 1 |
| | | Finess by Air permeablity method | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Standard Consistency | One Test | | 1 | 1 |
| | | Initial Setting time | One Test | | 1 | 1 |
| | | Final Setting time | One Test | | 1 | 1 |
| | | Soundness (Le Chatelier's Method) | One Test | | 1 | 1 |
| | | Compressive Strength | One Test | | 1 | 1 |
| 2 | Coarse aggregate(40 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| 3 | Coarse aggregate(20 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Aggregate crushing Value | One Test | | 1 | 1 |
| | | Aggregate Impact Value | One Test | | 1 | 1 |
| 4 | Fine aggregate | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Material finer than 75 micron | One Test | | 1 | 1 |
| 5 | Precast (230mm) | Core Compressive Strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive Strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive Strength | One Test | | 1 | 1 |

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-06-19-17** **Date: 06-07-23** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of Drains and Culverts in ward No.13 (Doddabommasandra) |
| **Agency** | : | M/s Mega Constructions, Prop. K Meghanadha Reddy, No.26, 2nd Cross, Chowdeshwari Layout, Near Impact College, Kodigehalli Extension, Sahakarnagar post, 92 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/142/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 03-07-23 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 269:2015 Ordinary Portland cement Specification ,<br>IS 4031 (Part 4,5):1988<br>IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4<br>IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6<br>IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 04-07-23 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 269:2015 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.79 | _ |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 295.9 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.15 | _ |
| 4 | Standard Consistency (%) | 28.5% | Not specified |
| 5 | Initial Setting time | 145 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 255 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1.0mm | Not more than 10 mm |

* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**

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Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-06-19-17** **Date: 01-08-23** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of Drains and Culverts in ward No.13 (Doddabommasandra) |
| **Agency** | : | M/s Mega Constructions, Prop. K Meghanadha Reddy, No.26, 2nd Cross, Chowdeshwari Layout, Near Impact College, Kodigehalli Extension, Sahakarnagar post, 92 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/142/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 03-07-23 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988<br>IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 04-07-23 |
| **Environmental Conditions during test** | : | Temperature: 26 °C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 269:2015 |
|---|---|---|---|
| 1 | 3 Days | 29.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.5N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 55.0N/mm$^2$ | Not less than 53 N/mm$^2$ |

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-06-19-17** **Date: 06-07-23** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of Drains and Culverts in ward No.13 (Doddabommasandra) |
| **Agency** | : | M/s Mega Constructions, Prop. K Meghanadha Reddy, No.26, 2nd Cross, Chowdeshwari Layout, Near Impact College, Kodigehalli Extension, Sahakarnagar post, 92 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/142/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 03-07-23 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2021<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 03-07-23 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken : 15000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 178 | 178 | 1.2 | 98.8 | 90-100 |
| 3 | 20 mm | 7145 | 7323 | 48.8 | 51.2 | 30-70 |
| 4 | 10 mm | 5699 | 13022 | 86.8 | 13.2 | 10-35 |
| 5 | 4.75 mm | 1705 | 14727 | 98.2 | 1.8 | 0-5 |
| 6 | Pan | 273 | 15000 | 100.0 | 0 | --- |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2023-06-19-17** **Date: 06-07-23**

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 11.7 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 14.2 | |
| 3 | Specific Gravity | 2.66 | _ |
| 4 | Bulk Density(Loose) (Kg/l) | 1.41 | _ |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.47 | _ |
| 6 | Water Absorption(%) | 0.23 | _ |

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-06-19-17** **Date: 05-07-23** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of Drains and Culverts in ward No.13 (Doddabommasandra) |
| **Agency** | : | M/s Mega Constructions, Prop. K Meghanadha Reddy, No.26, 2nd Cross, Chowdeshwari Layout, Near Impact College, Kodigehalli Extension, Sahakarnagar post, 92 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/142/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 03-07-23 |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2021<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 03-07-23 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken : 5000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 266 | 266 | 5.3 | 94.7 | 90-100 |
| 3 | 10 mm | 2377 | 2643 | 52.9 | 47.1 | 25-55 |
| 4 | 4.75 mm | 2088 | 4731 | 94.6 | 5.4 | 0-10 |
| 5 | Pan | 269 | 5000 | 100 | 0 | _ |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2023-06-19-17** **Date: 05-07-23**

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 13.7 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 12.5 | |
| 3 | Specific Gravity | 2.63 | _ |
| 4 | Bulk Density(Loose) (Kg/l) | 1.47 | _ |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.54 | _ |
| 6 | Water Absorption(%) | 0.27 | _ |
| 7 | Aggregate crushing Value(%) | 23.9 | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | 22.5 | 30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface. |

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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2023-06-19-17** **Date: 05-07-23**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Construction of Drains and Culverts in ward No.13 (Doddabommasandra)

**Agency** : M/s Mega Constructions, Prop. K Meghanadha Reddy, No.26, 2nd Cross, Chowdeshwari Layout, Near Impact College, Kodigehalli Extension, Sahakarnagar post, 92

**Customer's Reference** : BBMP/EE/BTP/WO/142/2022-23

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 03-07-23

**Sample Type** : Fine Aggregate

**Reference to BIS codes** : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

**Date of test** : 03-07-23

**Total weight taken** : 1000 grams

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 52 | 52 | 5.2 | 94.8 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 96 | 148 | 14.8 | 85.2 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 239 | 387 | 38.7 | 61.3 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 243 | 630 | 63.0 | 37.0 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 214 | 844 | 84.4 | 15.6 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 135 | 979 | 97.9 | 2.1 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 21 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**



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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2023-06-19-17** **Date: 05-07-23**

## PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.48 | – |
| 2 | Specific Gravity | 2.59 | – |
| 3 | Material finer than 75 micron(%) | 2.1 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF PRECAST COVER SLAB

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-06-19-17** **Date: 12-07-23** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of Drains and Culverts in ward No.13 (Doddabommasandra) |
| **Agency** | : | M/s Mega Constructions, Prop. K Meghanadha Reddy, No.26, 2nd Cross, Chowdeshwari Layout, Near Impact College, Kodigehalli Extension, Sahakarnagar post, 92 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/142/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 08-07-23 |
| **Sample Type /Size** | : | Precast Cover Slab - 230mm Thick |
| **Reference to BIS codes** | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete |
| **Date of test** | : | 08/07/2023 |
| **Grade of Slab** | : | M15 |

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 77.42 | 230.48 | 1.116 | 4707 | 81.6 | 17.3 | 16.1 | 20.2 |
| 2 | Cover Slab-2 | 77.52 | 230.52 | 1.122 | 4719 | 83.3 | 17.6 | 16.4 | 20.5 |
| 3 | Cover Slab-3 | 77.38 | 230.51 | 1.118 | 4702 | 80.9 | 17.2 | 16.0 | 20.0 |

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# TEST REPORT FOR SAND MASONRY MORTARS

**Lab ID** : **CP-2023-06-19-17** **Date: 06-07-23**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Construction of Drains and Culverts in ward No.13 (Doddabommasandra)

**Agency** : M/s Mega Constructions, Prop. K Meghanadha Reddy, No.26, 2nd Cross, Chowdeshwari Layout, Near Impact College, Kodigehalli Extension, Sahakarnagar post, 92

**Customer's Reference** : BBMP/EE/BTP/WO/142/2022-23

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 03-07-23

**Sample Type** : Fine Aggregate, M.Sand for Mortar

**Reference to BIS codes** : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

**Date of test** : 03-07-23

**Total weight taken** : 1000 grams

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS: 2116-1980 (RA-2007) |
|---|---|---|---|---|---|---|
| 1 | 4.75 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 2.36 mm | 85 | 85 | 8.5 | 91.5 | 90-100 |
| 3 | 1.18 mm | 200 | 285 | 28.5 | 71.5 | 70-100 |
| 4 | 600 micron | 146 | 431 | 43.1 | 56.9 | 40-100 |
| 5 | 300 micron | 116.5 | 547.5 | 54.8 | 45.3 | 5-70 |
| 6 | 150 micron | 412.5 | 960 | 96.0 | 4.0 | 0-15 |
| 7 | Pan | 40 | 1000 | 100.0 | 0.0 | 0 |



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# TEST REPORT FOR SAND MASONRY MORTARS

**Lab ID** : **CP-2023-06-19-17** **Date: 06-07-23**

## PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 3.18 | – |
| 2 | Specific Gravity | 2.51 | – |
| 3 | Material finer than 75 micron(%) | 12.2 | Crushed Fine aggregate Max 15% |
| 4 | Compacted Bulk Density (Kg/litre) | 1.90 | – |
| 5 | Loose Bulk Density (Kg/litre) | 1.73 | – |

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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig. Date. BANGALORE

**FOR CIVIL Pro.**

**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**

Assistant Executive Engineer
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****End of Report****